November 12, 2003

Standard Data Elements for Permitting Information (Final)

The Permitting Information Data Standard provides a comprehensive set of data elements for identification and tracking data that pertains to portions of most programs that have a permitting process or that are interested in permit related information. This State/U.S. EPA data standard was approved by the Environmental Data Standards Council on July 29, 2003 and approved by the U.S. EPA on November 12, 2003.

The Environmental Data Standards Council (EDSC) chartered a Permitting Data Standard Action Team late in 2000 to identify and define the major areas of permitting information, and to develop a data standard that could be used for the exchange of permitting data among environmental agencies and other entities. This Action Team produced a standard that consisted of identification and tracking data believed to be universally applicable to most programs that have a permitting process or that are interested in permit related information. This standard contained the following groups of data elements or "data blocks," Permit Identification, Permitted Feature, Permit Administration, and Permit Contact. The EDSC approved that standard in December 2001.

It was the intent of the original Action Team to create a permitting standard that did not contain more detailed program-specific information, and that if the need arose, standardization of program-specific data would be accomplished via the development of program-specific standards or through the development of Data Exchange Templates between information exchange partners. The need subsequently arose and prior to developing program-specific permitting data standards, the EDSC charged a new action team (Permitting II) in September 2002 with the task of broadening the existing Permitting Data Standard to include any additional information that is useful to multiple programs in order to avoid capturing similar information in more than one standard.

The Permitting II Action Team has identified additional areas of permit related information that it believes to be of common interest to multiple programs. These additional areas include the data blocks, Facility/Feature Characteristics, Permit Condition, Reporting Condition, Monitoring Condition, and Control Methodology. These data blocks and a few additional data elements have been added to the original Permitting Data Standard to form the Permitting Information Data Standard that follows.

As with the previous standard, the Permitting Information Data Standard has a number of associations with existing data standards. Environmental business areas are typically inter-related (e.g., facilities have permits, agencies take enforcement actions against organizations who own facilities and have permits) and in order to express these relationships, data elements and in some cases data blocks from other standards will need to be incorporated to complete an exchange of information for a particular area. Rather than reinvent or duplicate the content of

existing standards, the Team has identified cases where portions of other data standards should be used to complete associations among data elements within data blocks.

The original Permitting Data Standard contained a definition of "permit." The Permitting II Action Team identified some aspects of the original definition that it believes are distinct and should not be included within a single definition. A revised definition follows. A "permit" is an authorization, license, or control document used to implement the requirements of a regulation. A permit may be issued to an individual or an organization and typically specifies pollutant limits or operating procedures. A permit may be uniquely identified by the combination of four data elements: 1) Permit Name or Permit Number/Identifier, 2) Permit Type, 3) Organization Formal Name (for the issuing organization name incorporated by reference from the Facility Identification Data Standard); and 4) Affiliation Type (for the issuing organization role incorporated by reference from the Facility Identification Data Standard).

The following table contains the data groups and data elements that comprise the final Permitting Information Data Standard and does not represent a mandatory list of required elements for data exchange between EPA and its partners.

Permitting Information Data Standard			
Data Element Name	**Data Element Definition**	**Notes**	**Format**
Permit Identification *Definition*: Identification information about the permit and the organization responsible for issuing or granting the permit. *Relationships:* A permit may be related to a facility (Facility Identification Data Standard). A permittee may be associated with Facility Site Name, Facility Owner/Operator (a permissible value for Affiliation Type), Facility Registry Identifier, and State Facility Identifier. A permit name may be associated with Environmental Interest Type. A facility may have one or more permits. A permit may address one or more regulated substances (Chemical Identification and/or Biological Taxonomy Data Standards). A permit may be related to another permit (e.g., an individual permitted facility may be related to an overarching General Permit). A permit may have one or more permitted features or processes. A permit may be associated with one or more data elements of administrative information (multiple dates may create history). A permit may be associated with one or more permitting contacts. A number of contact related data elements exist in the Contact Information Data Standard and Facility Identification Data Standard which should be used as needed to identify entities and their affiliation such as; - Permittee - Organization Formal Name			

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
- Affiliation Type - Permitted Entity Contact Full Name - Permitted Entity Contact information (e.g., mailing address, phone number, etc.,)				
1	Permit Name **XML Tag:** PermitName	The name assigned to the permit by a permit issuing/granting organization to identify a permit or permit application.	(e.g., Dupont Chamberworks RCRA Treatment Permit). This data element may be associated to Environmental Interest Type in the USEPA Facility Registry System.	Alphanumeric (120)
2	Permit Number/Identifier **XML Tag:** PermitIdentifier	The alphanumeric identifier assigned to the permit by a permit issuing/granting organization to identify a permit or permit application.	(e.g., 51432)	Alphanumeric (30)
3	Other Permit Number/Identifier **XML Tag**: OtherPermitIdentifier	Other alphanumeric identifiers used to identify a permit or permit application.		Alphanumeric (30)
4	Other Permit Number/Identifier Context **XML Tag:** OtherPermitIdentifierContextName	A brief description of the other permit number/identifier context	(e.g., authorization ID used by PA DEP for tracking)	Alphanumeric (100)
5	Program Name **XML Tag:** ProgramName	The name of the program/jurisdictional authority under which a permit is issued or granted.	The following are example values: Air Quality Water Quality/NPDES Hazardous Waste/RCRA Underground Injection Control (UIC) Solid Waste Mining	Alphanumeric (40)
6	Permit Type **XML Tag:** PermitTypeName	The type of permit issued or granted to a regulated entity.	The following is a representative sample of permissible values for Federal and State	Alphanumeric (120)

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
			environmental permit programs. Permissible values are specific to program name. WATER-NPDES Individual Permit WATER-NPDES Master General Permit WATER-NPDES General Permit Covered Facility WATER-Non-NPDES Individual Discharge Permit WATER-Non-NPDES Master General Permit WATER-Non-NPDES General Permit Covered Facility WATER-Industrial User (Pretreatment) Permit WATER-Associated Permit Record RCRA-Operating RCRA-Post Closure RCRA Corrective Action AIR-General AIR-Title IV (acid rain) AIR-Title V AIR-Synthetic Minor AIR-Minor UIC-Construction UIC-Operation SOLID WASTE-Municipal Land Fill SOLID WASTE-Industrial Land Fill SOLID WASTE-Transfer Station SOLID WASTE-Land Application MINING-Coal Mining Surface Mining Permit	

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
			MINING-Coal Mining Operators License MINING-Industrial Minerals Mining Activity Permit	
Permitted Feature Definition: Information about the permitted feature of a permit. A permitted feature is a unit, physical structure, feature, or process described in a permit. *Relationships*: A permitted feature may be associated with one or more data elements of administrative information. A permitted feature identifier may be associated with one of more permitted feature types. A permitted feature may address one or more regulated substances (see Chemical Identification and/or Biological Taxonomy Data Standards for proper reference).				
7	Permitted Feature Identifier **XML Tag:** PermitFeatureIdentifier	The alphanumeric identifier or name assigned by a permit issuing organization to identify a permitted unit, feature, or process.	(e.g., Smith Furnace AV). This data element may be used multiple times to describe multiple features. Each feature identifier/ name should be associated to at least one feature type (See item #12).	Alphanumeric (40)
8	Permitted Feature Type **XML Tag:** PermittedFeatureTypeName	The type of permitted unit, feature, or process represented by an identifier.	Example values include: External outfall Internal outfall Lagoon Land application site Incinerator Stack Pumping station Monitoring well Perc pond Landfill Surface impoundment Waste pile Tank Container Boiler and industrial furnace Corrective Action Management Units Solid Waste Management Units	Alphanumeric (40)

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
9	Permitted Feature Operating Status **XML Tag:** PermittedFeatureOperatingStatusName	The name of the category describing the operating status of a permitted unit.	Example values include: Proposed Under construction Constructed, but not yet active Active/Operating Inactive Clean/Closed Closed in place Not constructed Operating Operating, but not discharging Not operating Seasonal shut down Temporary shut down	Alphanumeric (40)
10	Permitted Feature Start Date **XML Tag:** PermittedFeatureStartDate	The calendar date that the operating status of a permitted feature takes effect.		D(8) YYYYMMDD
11	Permitted Feature End Date **XML Tag:** PermittedFeatureEndDate	The calendar date that the operating status of a permitted feature is no longer in effect.		D(8) YYYYMMDD
Permit Administration *Definition*: Administrative information about the permit.				
12	Permit/Permitted Feature Administrative or Legal Status **XML Tag:** PermittedFeatureAdministrativeLegalStatusName	The administrative or legal status of a permit or permitted feature.	Example values include: Pending Appealed Denied Active Inactive Expired Extended Withdrawn Revoked Not required	Alphanumeric (20)
13	Permit Application Completion Date	The calendar date that a permit application was		D(8) YYYYMMDD

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
	XML Tag: PermitApplicationCompletionDate	deemed to be complete.		
14	Permit Issue Date **XML Tag:** PermitIssueDate	The calendar date that a permit was issued.		D(8) YYYYMMDD
15	Permit Effective Date **XML Tag:** PermitEffectiveDate	The calendar date that a permit becomes effective.		D(8) YYYYMMDD
16	Permit Expiration Date **XML Tag:** PermitExpirationDate	The calendar date that a permit expires.		D(8) YYYYMMDD
17	Permit Revocation Date **XML Tag:** PermitRevocationDate	The calendar date that a permit will be or was revoked.		D(8) YYYYMMDD
18	Permit Termination Date **XML Tag:** PermitTerminationDate	The calendar date that a permit will be or was terminated or surrendered.		D(8) YYYYMMDD
Facility/Feature Characteristic *Definition*: The description of the size, scope, and complexity of a specific feature or facility. *Relationships*: A facility/feature characteristic may be associated with a Permit Number/Identifier or a Permitted Feature Identifier. *Note*: The data elements in this group can be used at the facility level as well as the feature level. Collectively these data elements can be used to describe the quantity that a permitted facility or feature (feature may be a unit or process) is designed to, permitted to, or can actually manage or produce. It also can characterize the flow, production amount, or other specifications about the facility's or feature's designed or actual characteristics or functions.				
19	Facility/Feature Characteristic Name **XML Tag:** FacilityFeatureCharacteristicName	The descriptive name of the item that the facility/feature is designed to or actually accommodates, or produces.	Example values include: Sewage Pollutant Chemical Biological Product Nylon	Alphanumeric (40)

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
			Heat Input	
20	Facility/Feature Characteristic Text **XML Tag:** FacilityFeatureCharacteristicText	The description of the capability or function that the facility/feature is designed to or actually accommodates, or produces.	(e.g., removal of pollutants from municipal wastewater)	Alphanumeric (120)
21	Facility/Feature Characteristic Measure Name **XML Tag:** FacilityFeatureCharacteristicMeasureName	The name that describes what the feature characteristic represents.	Example values include: Potential Flow Actual Flow Design Capacity Production Amount Actual Capacity	Alphanumeric (40)
22	Facility/Feature Characteristic Measure Value **XML Tag:** FacilityFeatureCharacteristicMeasure	The numeric value that quantifies the feature characteristic.	(e.g., the number representing the quantity, rate or any other measurement type)	Numeric (8)
23	Facility/Feature Characteristic Measure Unit of Measure Name **XML Tag:** FacilityFeatureCharacteristicMeasureUnitMeasureName	The name of the determinate quantity for a standard of measurement used for measuring the dimension, capacity, or amount of the feature characteristic.	Example values include: - µg/L -Micrograms per liter - pCi/L - Pico-Curies per liter - CFU/ml - Colony forming units per milliliter	Alphanumeric (10)
24	Facility/Feature Characteristic Statistical Basis Name **XML Tag:** FacilityFeatureCharacteristicStatisticalBasisName	The name of the statistical basis describing how the feature characteristic measure value was derived.	Example values include: Maximum Average	Alphanumeric (30)
Control Methodology *Definition*: A process and/or tools to manage storage, disposal, treatment, and other handling protocols designed for and/or used. *Relationships*: A control methodology may be related to one or more facilities, features, or entities.				
25	Methodology Type	The type of process	Example values include:	Alphanumeric

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
	XML Tag: MethodologyTypeText	and/or tool designed or used to manage storage, disposal, treatment, and other handling protocols.	Incineration Disposal	(30)
26	Methodology Description **XML Tag:** MethodologyDescriptionText	The text that describes the process and/or tools that manage storage, disposal, treatment, and other handling protocols designed for and/or used.	This field allows the user to provide extensive detail to describe the methodology used beyond that provided by Methodology Type (e.g., equipment manufacturer, make, model, location description, etc.,)	Alphanumeric (120)
Permit Condition *Definition*: The requirement applied to the facility, entity, or feature. Conditions could be limit/numeric, schedule/date, or descriptive requirements. *Relationships*: A permit condition is associated with a Permit Number/Identifier. Multiple permit conditions may be associated with a permit. A permit condition may be associated with one or more facilities, entities, or features. Multiple permit conditions may be placed on a facility, entity, or feature. *Note*: Reference the Reporting Water Quality Results for Chemical and Microbiological Analytes Data Standard. For chemicals, biological organisms, physical parameters, or other entities, the following items may define the object of the condition: Analyte Name, Analyte Name Context Name, Analyte Identifier/Number, and Analyte Identifier Context Name.				
27	Condition Identifier **XML Tag:** ConditionIdentifier	The reference to a section of a permit that identifies the condition within a specific permit.		Alphanumeric (20)
28	Basis of Condition **XML Tag:** BasisConditionText	The regulatory or technical framework used to define the requirement.	(e.g., statute name, citation, water-quality guidelines, etc.)	Alphanumeric (100)
29	Condition Status Name **XML Tag:** ConditionStatusName	The name of the category describing the status of the condition.	Example values include: Initial Modified Revoked	Alphanumeric (20)
30	Condition Start Date **XML Tag:** ConditionStartDate	The date on which a condition begins being in effect.		D(8) YYYYMMDD
31	Condition End Date	The date on which a		D(8)

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
	XML Tag: ConditionEndDate	condition ends being in effect.		YYYYMMDD
32	Text Condition **XML Tag:** TextConditionText	The language that explains the requirement placed on the responsible party.	(e.g., "Ensure fence surrounds storm water pond.")	Alphanumeric (120)
33	Condition Trigger Text **XML Tag:** ConditionTriggerText	The text that describes an event or circumstance that activates a requirement.	(e.g., seasonal limit, ozone exceedance)	Alphanumeric (120)
34	Numeric Condition Quantity **XML Tag:** NumericConditionQuantity	The numeric value that represents the limitation being placed on a parameter for a feature.		Numeric (8)
35	Numeric Condition Unit of Measure Name **XML Tag:** NumericConditionUnitMeasureName	The name of the determinate quantity for a standard of measurement used for measuring dimension, capacity, or amount of the numeric condition.	Example values include: - µg/L -Micrograms per liter - pCi/L - Pico-Curies per liter - CFU/ml - Colony forming units per milliliter	Alphanumeric (10)
36	Numeric Condition Statistical Basis Name **XML Tag:** NumericConditionStatisticalBasisName	The name of the statistical basis specified in a limit/numeric condition.	Example values include: Average Maximum	Alphanumeric (30)
37	Numeric Condition Qualifier **XML Tag:** NumericConditionQualifier	The mathematical operator used to qualify the limit.	Example values include: < > =	Alphanumeric (1)
Reporting Condition *Definition*: Administrative information associated with submission or reporting requirements. *Relationships*: A reporting condition may be associated with one or more permit conditions.				
38	Report Recipient Name **XML Tag:**	The name of the entity or entities directed by the permit or regulations to receive the report.		Alphanumeric (60)

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
	ReportRecipientName			
39	Reporting Frequency **XML Tag:** ReportingFrequency Text	The frequency with which the report is required to be submitted to the report recipient.	Example values include: Annually Quarterly Monthly Daily	Alphanumeric (30)
40	Report Due Date **XML Tag:** ReportDueDate	The date that the report is due to the report recipient.		D(8) YYYYMMDD
41	Report Received Date **XML Tag:**	The actual date the report was received by the report recipient.		D(8) YYYYMMDD
42	Report Identifier **XML Tag:** ReportIdentifier	The unique tracking number or name assigned by a system or program that identifies the report.	Example values include: 4th Quarterly Report 20030714A	Alphanumeric (30)

Monitoring Condition
Definition: Administrative information that describes the monitoring requirements.
Relationships:
A monitoring condition may be associated with one or more permit conditions.
Note: This data block is intended to capture monitoring activities required by a permit such as a description of the monitoring site, its location, monitoring frequency, the method used to collect a sample, or the reference number of the analytical method used. Where they exist, data elements from other final data standards are referenced for use as needed.

The following data elements from the Latitude/Longitude Data Standard may be used to identify the specific geographical representation of the monitoring location (e.g., point, line, or area): Latitude Measure, Longitude Measure, Horizontal Accuracy Measure, Source Map Scale Number, Horizontal Collection Method Text or Code, Reference Point Text or Code, Horizontal Reference Datum Name or Code.

The standard data element Sample Collection Method Text from the Reporting Water Quality Results for Chemical and Microbiological Analytes Data Standard may be used to identify the method used to collect the sample as prescribed by a permit.

The standard data element Analytical Method Number from the Reporting Water Quality Results for Chemical and Microbiological Analytes Data Standard may be used to identify the reference method number of the analytical method used.

Permitting Information Data Standard				
Data Element Name		**Data Element Definition**	**Notes**	**Format**
43	Monitoring Site Description **XML Tag:** MonitoringSiteDescription	Text that describes the monitoring site with respect to a feature.	(e.g., stack 12, scrubber A2, manhole, downstream from discharge pipe)	Alphanumeric (120)
44	Monitoring Frequency **XML Tag:** MonitoringFequency Text	The required frequency with which monitoring is to be conducted at the site or location.	Example values include: Daily Hourly Monthly Quarterly Semi-annually Yearly Bi-annual Tri-annual No reporting requirements	Alphanumeric (25)